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L3	24	(egress$5 ingress$5 access) near8 (oriented based dependent) near5 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:34
L4	18	(access) near8 (oriented based dependent) near5 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:28
L5	0	(access near4 line) near8 (oriented based dependent) near5 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:28
L6	8	(access near4 line) near5 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:28
L7	0	(comput$5 calculat$5 decid$5) near4 (optim$7) same (bandwidth) same (destinat$5 originat$7) near5 (egress ingress access capacity) near4 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:31
L8	2	(comput$5 calculat$5 decid$5) near4 (bandwidth) same (destinat$5 originat$7) near5 (egress ingress access capacity) near4 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:34
L9	2	"5884037".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:34
L10	331	(egress$5 ingress$5 access) near8 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:35
L11	239	(access) near8 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:35
L12	0	(comput$5 calculat$5 decid$5 allocat$5 setting) near4 (access) near5 (bandwidth) same (destinat$5 originat$7) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:45

L13	429	(forming form mak$5 comput$5 aggregat$5) near4 (group path connection) and (allocat$5 decid$5 comput$5 farm$5 calculat$5) near4 (resourc$5 bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:04
L14	146	(adaptiv$5 select$5 dynamic$5) near5 (allocat$5 decid$5 comput$5 calculat$5) near4 (resourc$5 bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:15
L15	0	(adaptiv$5 select$5 dynamic$5) near5 (allocat$5 decid$5 comput$5 calculat$5) near4 (resourc$5 bandwidth) near5 (MPLS) near3 (tunnel trunk)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:05
L16	3084	370/229,230,230.1,231,232,233,234,237.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:41
L17	32	L16 and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:31
L18	35	L16 and L13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:34
L19	0	"6288716.pn"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:34
L20	2	"6288716".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:34
L21	55	725/96.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:42
L22	0	L21 and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:42
L23	0	L21 and L13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:42

L24	5	709/235.ccls. and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:43
L25	0	379/112.05.ccls. and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:44
L26	0	379/112.05.ccls. and L13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:44
L27	14	(comput$5 calculat$5 decid$5 allocat$5 setting) near4 (network aggregation) near5 (bandwidth) same (destinat$5 originat$7) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:49
L28	189	(comput$5 calculat$5 decid$5 allocat$5 setting) near4 (network aggregation) near5 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:49
L29	16	(adjust$5) near4 (network aggregation) near5 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 10:50
S1	0	(aggregat$5) near5 (bandwidth) and (label adj allocation adj prortocol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 15:26
S2	0	(bandwidth) and (label adj allocation adj prortocol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 15:20
S3	0	(label adj allocation adj prortocol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 15:26
S4	0	(label adj switching adj prortocol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 15:26
S5	77	(label adj switching adj protocol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 15:36

S6	1	(aggregat$5) near5 (bandwidth) and (label adj allocation adj protocol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 15:58
S7	1	(bandwidth) and (label adj allocation adj protocol)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/16 15:27
S8	11	(comput$5 calculat$5 decid$5) near4 (optim$7) same (bandwidth) same (destinat$5 originat$7) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:42
S9	203	(aggregat$5) near20 (bandwidth) and (MPLS)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/06/17 07:19

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Murali S. Kodialam, T. V. Lakshman, Sudipta Sengupta

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This paper presents a new algorithm for on-line routing of bandwidth-guaranteed multicasts where routing requests arrive one-by-one without there being any a priori knowledge of future requests. A multicast routing request consists of a source s, a set of receivers R, and a bandwidth requirement b. This multicast routing problem arises in many contexts. Two applications of interest are routing of point-to-multipoint label-switched paths in ...

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November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00**

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The IBM SP is one of the most powerful commercial MPPs, yet, in spite of its fast processors and high network bandwidth, the SP's communication latency is inferior to older machines such as the TMC CM-5 or Meiko CS-2. This paper investigates the use of Active Messages (AM) communication primitives as an alternative to the standard message passing in order to reduce communication overheads and to offer a good building block for higher layers of software. The first part of this paper describe ...

3 The next Internet

Dennis Fowler

September 1999 **netWorker**, Volume 3 Issue 3

Full text available: pdf(664.20 KB) html(31.24 KB) Additional Information: full citation, index terms

4 Load-sensitive routing of long-lived IP flows
Anees Shaikh, Jennifer Rexford, Kang G. Shin
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings, index terms

Internet service providers face a daunting challenge in provisioning network resources, due to the rapid growth of the Internet and wide fluctuations in the underlying traffic patterns. The ability of dynamic routing to circumvent congested links and improve application performance makes it a valuable traffic engineering tool. However, deployment of load-sensitive routing is hampered by the overheads imposed by link-state update propagation, path selection, and signaling. Under reasonable protoc ...

5 A flexible model for resource management in virtual private networks
N. G. Duffield, Pawan Goyal, Albert Greenberg, Partho Mishra, K. K. Ramakrishnan, Jacobus E. van der Merive
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.67 MB) Additional Information: full citation, abstract, references, citings, index terms

As IP technologies providing both tremendous capacity and the ability to establish dynamic secure associations between endpoints emerge, Virtual Private Networks (VPNs) are going through dramatic growth. The number of endpoints per VPN is growing and the communication pattern between endpoints is becoming increasingly hard to forecast. Consequently, users are demanding dependable, dynamic connectivity between endpoints, with the network expected to accommodate any traffic matrix, as long as the ...

6 Decoupling QoS control from core routers: a novel bandwidth broker architecture for scalable support of guaranteed services
Zhi-Li Zhang, Zhenhai Duan, Lixin Gao, Yiwei Thomas Hou
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication**, Volume 30 Issue 4

Full text available: pdf(504.39 KB) Additional Information: full citation, abstract, references, citings, index terms

For scalable support of guaranteed services that decouples the QoS control plane from the packet forwarding plane. More specifically, under this architecture, core routers do not maintain any QoS reservation states, whether per-flow or aggregate. Instead, QoS reservation states are stored at and managed by bandwidth broker(s). There are several advantages of such a bandwidth broker architecture. Among others, it relieves core routers of QoS control functions such as admissi ...

7 Business: the 8th layer: quality of service
Kate Gerwig
December 1999 **netWorker**, Volume 3 Issue 4

Full text available: pdf(573.03 KB) html(17.40 KB) Additional Information: full citation, index terms

8 Dynamic resource brokering for multi-user query execution
Diane L. Davison, Goetz Graefe
May 1995 **ACM SIGMOD Record , Proceedings of the 1995 ACM SIGMOD international conference on Management of data**, Volume 24 Issue 2

Full text available: pdf(1.57 MB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new framework for resource allocation based on concepts from microeconomics. Specifically, we address the difficult problem of managing resources in a multiple-query environment composed of queries with widely varying resource requirements. The central element of the framework is a resource broker that realizes a profit by "selling" resources to competing operators using a performance-based "currency." The guiding principle for brokering resources is profit maximization. In other wo ...

9 Providing guaranteed services without per flow management
Ion Stoica, Hui Zhang
August 1999 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 29 Issue 4

Full text available: pdf(1.72 MB) Additional Information: full citation, abstract, references, citings, index terms

Existing approaches for providing guaranteed services require routers to manage per flow states and perform per flow operations [9, 21]. Such a *stateful* network architecture is less scalable and robust than *stateless* network architectures like the original IP and the recently proposed Diffserv [3]. However, services provided with current *stateless* solutions, Diffserv included, have lower flexibility, utilization, and/or assurance level as compared to the services that can be ...

10 Papers: Automatic VLAN creation based on on-line measurement
Sean Rooney, Christian Hörtnagl, Jens Krause
July 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 3

Full text available: pdf(806.29 KB) Additional Information: full citation, abstract, references

Virtual LANs (VLANs) permit hosts connected to a LAN switch to be grouped together into logical groups as a function of some management policy rather than simply of their physical location. Commercial LAN switches support a variety of policies based on either physical or logical addresses, protocol types, tagged frames, or user defined rules. The objective of these policies is the same: to reduce the amount of traffic that needs to be routed by grouping together hosts which are likely to communi ...

11 TCP/IP performance with random loss and bidirectional congestion
T. V. Lakshman, Upamanyu Madhow, Bernhard Suter
October 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 5

Full text available: pdf(287.04 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: ADSL, TCP, buffer management, cable modems, scheduling

12 Core-stateless fair queueing: achieving approximately fair bandwidth allocations in high speed networks
Ion Stoica, Scott Shenker, Hui Zhang
October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies,**

architectures, and protocols for computer communication, Volume 28 Issue 4

Full text available: pdf(1.75 MB) Additional Information: full citation, abstract, references, citings, index terms

Router mechanisms designed to achieve fair bandwidth allocations, like Fair Queueing, have many desirable properties for congestion control in the Internet. However, such mechanisms usually need to maintain state, manage buffers, and/or perform packet scheduling on a per flow basis, and this complexity may prevent them from being cost-effectively implemented and widely deployed. In this paper, we propose an architecture that significantly reduces this implementation complexity yet still achieves ...

Results 1 - 12 of 12

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